OM protein - protein search, using sw model

Run on:

November 7, 2002, 10:03:24; search time 15.5455 Seconds (without alignments) 3931.234 Million cell updates/sec

US-09-125-005-6 3384 1 MAQSTATSPDGGTTFEHLWS......PDCKARKQPIKEEFTEAEIH 636 Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283138 seqs, 96089334 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Total number of hits satisfying chosen parameters:

283138

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR_71:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARTES

	Description	cellular tumor ant	tumor	tumor	tumor	tumor suppressor p	cellular tumor ant	tumor	tumor suppressor p	_	cellular tumor ant	cellular tumor ant	tumor	ö	hypothetical prote			~		hypothetical prote	probable transcrip	SEC31 protein - ye	SSC	hypothetical prote	extensin precursor	hypothetical prote	SPR-1 protein - hu	Bassoon protein -	verprolin - yeast	hypothetical prote
RIES																														
SUMMARIES	ΩI	JH0631	S02193	S51648	JH0633	JC6176	A29376	S02192	JC6193	DNHU53	S06594	DNMS53	S38824	146226	T00074	T19361	H85335	T04518	T32008	T41547	T13283	S58782	A56577	T20369	A24354	T18311	526638	T42761	S51342	T02909
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	Length	396	367	386	366	393	363	391	391	393	393	390	381	77	903	925	864	. 864	1819	964	1221	1273	2364	1026	306	1241	784	3938	817	1791
dЬ	Query Match	25.2	23.0	22.5	22.1	21.9		21.7	21.4		21.2			7.3		4.4	4.3	4.3	4.2	4.2	4.1	9. 6.	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.7
	Score	851.5	778	760.5	749	741.5	741	735.5	724.5	724.5	718.5	711.5	702	248.5	151.5	148.5	145	145	143	142	139.5	133	131.5	130.5	129	128	127.5	127	126	126
	Result No.		7	٣	4	S	9	7	ω.	0	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24	25	56	27	28	53

1 | | | : 360 DKYRQK 365 387 DSYRQQ 392

g ò

RESULT 2 S02193

•	peroxisome prolife	hypothetical prote	dachshund protein	versican precursor	hypothetical prote	serine/threonine-s	tumor suppressor p	nestin human	Bassoon protein -	dachshund 1soform	transcription acti	hypothetical prote	transcription coac	CREB-binding prote	eyelld - fruit fly	dachshund protein	
	T02885 .	T40290	T13231	A55535	T04487	JW0051	A56155	S21424	T42730	T13230	A42091	T38495	S39162	S39161	T13049	T13232	
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	1560	963	1081	2397	650	1051	1099	1618	3942	1065	1638	1969	2440	2441	2715	1072	
	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	9.0	3.6	3.6	3.6	3.6	3.6	3.6	
	125.5	125	125	124.5	124	124	124	123.5	123.5	123	123	123	123	123	123	122.5	
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	

ALIGNMENTS

RESULT 1 JH0631 Cellular tumor antigen p53 - rainbow trout C; Species: Oncorhynchus mykiss (rainbow trout) C; Accession: JH0631 R; Gene 112, 241-245, 1992 A; Title: Rainbow trout p53: CDNA cloning and blochemical characterization. A; Reference number: JH0631; MUDD:92210006 A; Roccession: JH0631 A; Roccession: JH0631; MUDD:92210006 A; Roccession: JH0631; MUD:92210006 A; Roccession: JH0631; MUD:9213828; PIDN:AAA49605.1; PID:9213829 A; Residues: 1-396 < CDEP; A; Residues: 1-396 < CDEP; A; Reperimental Source: liver C; Comment: This protein is the product of a tumor suppressor gene, p53, whose inactive c; Superfamily: cellular tumor antigen p53 C; Superfamily: cellular tumor antigen p63 C; Superfamily: cellular tumor antigen control; DNA binding; homotetramer; nucleus; phr F; 164, 167, 227, 231/Painding site: zinc (Cys, His, Cys) #status predicted	Covarient) stee: phosphory. The (Sef.) (Covarient) *Status predicted Query Match 25.2%; Score 851.5; DB 1; Length 396; Best Local Similarity 55.6%; Pred. No. 1.3e-51; Matches 170; Conservative 43; Mismatches 86; Indels 7; Gaps 5; Qy 93 VPTHSPYAQPS-STFDIMS-PAPVIPSNIDYPGPHHFEVTFOQSSTAKSATWTYSPLIKK 150	OY 211 ASHLINEGONLOGY DOLY DERONGE SEVENCE SEVENER 270	QY 330 FKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKLKESLELMELVPQPLV 386

N

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A,Gene: p53
C;Superfamily: cellular tumor antigen p53
C;Keywords: apoptosis; call division control; DNA binding; homotetramer; nucleus;
C;Keywords: apoptosis; call division control; DNA binding; homotetramer; nucleus;
F;179,182,241,245/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F;395/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                   11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cellular tumor antigen p53 - golden hamster
Alternate names: tumor-suppressor protein p53
C;Species: Mesocricetus auratus (golden hamster)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                    -PEHAASVPTHS-PYAQPSSTFDTM 109
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                                                                                                                                                                                SPAPV-----IPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPI 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127
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Gene 112, 247-250, 1992
A;Title: The CDNA cloning and immunological characterization of hamster |
Reference number: JH0633; MUID:92210007
A;Accession: JH0633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: mRNA
A;Residues: 1-396 <LEG>
A;Cross-references: GB:M75144; NID:g191414; PIDN:AAA37085.1; PID:g191415
A;Expeximental source: Kidney, strain MP1
C;Genetics:
                                                                                                                                                                                                                                                                                                                24 NLLPENNLLSS---ELSAPVDDLLPYTDVATWLDECPNEAPQMPEPSAPAAPDPAT----
                                                                                                                                                                                                                                 77 -PAPATSWPLSSFVPSQKTYPGNYGFRLGFLQSGTAKSVTCTYSPSLNKLFCQLAKTCPV
                                                                                                                                                                                                                                                                                     QIXVSTPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18 TFSDLWKLLPPNNVLSTLPSS------DSIEELFLSENVA------GWLEDPGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74 QMSSRAASASPYTPEHAASVP---THSPYAQPSSTFDTMSPAPV---IPSNTDYPGPHHF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EVTFOOSSTAKSATWTYSPLLKKLYCOIAKTCPIOIKVSTPPPPGTAIRAMPVYKKAEHV
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                                      45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 22.1%; Score 749; DB 1; Length 396;
Best Local Similarity 43.8%; Pred. No. 1.7e-44;
Matches 165; Conservative 58; Mismatches 104; Indels
                                   Indels
          Pred. No. 2.7e-45; ; Mismatches 105;
                                                                                    SVMAQFNLLSSTMDQMSSRAASASPYT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             401 HLQP---PSYGPVLSPMNKVHG 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 HLKSKKRPSPSCHKKPMLKREG 382
          Local Similarity 44.2%; Pr
hes 169; Conservative 63;
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                                                                                                                                                                                                                                                                                                A; Assorteferences: EMBL:X13057; NID:963740; PIDN:CAA31456.1; PID:963741
C; Superfamily: cellular tumor antigen p53
C; Superofas: apoptosis: cell division control; DNA binding; homotetramer; nucleus; phosph F; 161,164,224,228 Painding site: zinc (Cyx, His, Cyx, Cyx) #status predicted
F; 366/Binding site: phosphory1-RNA (Ser) (covalent) #status predicted
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A; Modecule type: mRNA
A; Cross-references: EMBL:X81704; NID:g602332; PIDN:CAA57348.1; PID:g602333
C; Superfamily: cellular tumor antigen p53
C; KGywords: apoptosis; cell division control; DNA binding; homotetramer; phosphoprotein; F; 186, 171, 231, 235, Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F; 385/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
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R; Dequiedt, F.; Willems, L.; Burny, A.; Kettmann, R.
submitted to the EMBL Data Library, September 1994
A; Description: Nucleotide sequence of the ovine p53 tumor-suppressor gene cDNA and its A; Reference number: $51648
A; Reference number: $51648
cellular tumor antigen p53 - chicken
NiAlternate names: nuclear cncoprotein p53
C;Species: Gallus gallus (chicken)
C;Species: Gallus gallus (chicken)
C;Species: Gallus gallus (chicken)
C;Species: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: SO2199
Fiscussi, T.; Beque, A.; Kress, M.; Stehelin, D.; May, P.
Nucleic Acids Res. 16, 11383, 1988
A;Title: Nucleotide sequence of a cDNA encoding the chicken p53 nuclear oncoprotein.
A;Reference number: SO2193; MUID:89083584
A;Accession: SO2193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7;
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C'Species: Bos primigenius taurus (cattle)
C'Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 281 A-----GGVAKRA--MSPP-TEAPEPPKKRVLNPDNEIFYLQVRGRRKYEMLKEINEA 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  102 GTAKSVTCTYSPVINKYYCRLAKPCPVQVRVGVAPPPGSSLRAVAVYKKSEHVAEVVRRC 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NFMCNSSCVGGMNRRPILITITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYREQQA 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               75 MSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQS 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                47 SDPPPPPPPPPPLPLAAAAPPPLNPPTPPRA-----APSPVVPSTEDYGGDFDFRVGFVEA 101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 23.0%; Score 778; DB 1; Length 367; Best Local Similarity 44.1%; Pred. No. 1.5e-46; Matches 164; Conservative 56; Mismatches 106; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15 PMDLWSMLPYSMQQLPLPEDHSNWQEL-----
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LQLAEGGSAPRP 342
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                                                                                                                                                                                                                                                          Molecule type: mRNA
Residues: 1-367 <SOU>
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C;Species: Xenopus laevis (African clawed frog)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A29376; S61331; S72313; IS1639
G;Accession: A29376; S61331; S72313; IS1639
Oncogene 1, 71-78, 1987
Oncogene 1, 71-78, 1987
Oncogene 1, 71-78, ISPARAECTERIZATION Of a CDNA from Xenopus laevis coding for a prot A;Reference number: A29376; WUID:88143684
                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Title: Overexpression of wild-type p53 interferes with normal development in Xenopu A;Reference number: 151639; WUID:94134403 A;Accession: S61531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Superfamily: cellular tumor antigen p53
C;Keywords: apoptoals; cell division control; DNA binding; homotetramer; nucleus; pht
E;150,153,213,213,217,Binding site: zinc (Cys. His, Cys. Cys. kstatus predicted
F;362/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12;
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N'Alternate names: gene p53 protein; nuclear oncoprotein p53
C;Species: Rattus norvegicus (Norway rat)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: S02192; S41149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wolecule type: mRNA
| Residues: 1-51,'S',53-70,72-293,295-363 <HOW>
| Cross-references: EMBL:X77546; NID:9468513; PIDN:CAA54672.1; PID:9468514
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A;Residues: 1-293,295-363 <HOE>
A;Cross-references: EMBL:X77546; NID:g468513; PIDN:CAA54672.1; PID:g468514
R;Hoever, M.; Clement, J.; Medilch, D.; Montenarh, M.; Knochel, W.
submitted to the EMBL Data Library, March 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46 DSSMDVFHLEGMTTSVMAQFNLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSST 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .06 FDTMSPAPVIPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKV 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            166 STPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQ-SAPASHLIRVEGNNLSQ 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LGRRSFEGRICACPGRDRKADEDHYREQQALNESSAKNGAASKRAFKQSPPAVPALGAGV 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MEPSSETGMDPPLSQETFEDLWSLL-PDPLQTVTCRLDNLSEFPDYPLA------ 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ------ 70
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                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:X05191; NID:964961; PIDN:CAA28821.1; PID:964962 R;Hoever, M.; Clement, J.H.; Wedlich, D.; Montenarh, M.; Knoechel, W. Oncogene 9, 109-120, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21.9%; Score 741; DB 1; Length 363;
41.7%; Pred. No. 5.5e-44;
tive 54; Mismatches 92; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               290 KKRLVVVDDDEEIFTLRIKGRSRYEMIKKLNDALELQESLDQQKV 334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       345 KKRR---HGDEDTYYLQVRGRENFEILMKLKESLELMELVPQPLV 386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 49 -ADMTVLO-EGLMGN-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 41.74
Matches 169; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Reference number: S72313
A; Accession: S72313
                                                                                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 1-363 <SOU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; Genetics:
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Affile: Cloning and characterization of Chinese hamster p53 cDNA.

Afficience number: JC6176, MUID: 97183659

Afficience type: MRNA

Affici
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6
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                                                                               306
                                                                                                                    30 SDCTTIHYNYMCNSSCMGGMNRRPILTITLEDPSGNLLGRNSFEVRICACPGRDRRTEE 289
                                                                                                                                                                                                                  362
                                                                                                                                                                                                                                                              290 KNFQKKGEPCPELPPKSAKRALPINISSSPQP------KRRTLDGEYFTLKIRGQ 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 74 QMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQ 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            134 SSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKR 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               194 CPNHELGRDFNEGGS-APASHLIRVEGNNLSQYVDDVTGRQSVVVPYEPPQVGTEFTT1 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             253 LYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYREQ 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        313 ----QALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEIL 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               293 GEPCPELPPKSAKRALPINTS--SSPP------PKKKYLDGEYFTLKIRGHERFKMF 341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             173 TEVVRRCPHHERS---SEGDGLAPPQHLIRVEGNMHAEYLDDKQTFRHSVVVPYEPPEVG
                                                                            TEFTTILYNFMCNSSCVGGMNRRPILLITTLEMRDGQVLGRRSFEGRICACPGRDRKADE
                                                                                                                                                                                                               307 DHYREQ----QALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 21.9%; Score 741.5; DB 2; Length 393; Best Local Similarity 43.7%; Pred. No. 5.7e-44; Matches 162; Conservative 57; Mismatches 111; Indels 41;
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A29376
cellular tumor antigen p53 - African clawed frog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Gene: p53
C;Superfamily: cellular tumor antigen p53
C;Keywords: liver; tumor
                                                                                                                                                                                                                                                                                                                                                 363 ENFEILMKLKESLELME 379
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ERFKMFQELNEALELKD 355
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342 QELNEALELKD 352
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JC6176
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NiAlternate names: cellular phosphoprotein p53; oncoprotein p53; transformation supprociation at the manes: cellular phosphoprotein p53; oncoprotein p53; transformation supprociations and mono saptens (man)
(Species: Homo saptens (man)
(Species: 1805-02t-1988 #sequence_revision 18-Nov-1994 #text_change 15-Sep-2000
(Species: 105-02t-1988 #sequence_revision 18-Nov-1998 #sequence_revisio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Wolecule type: DNA
A; Readidues: 1-193 ABROILS:
A; Cross-references: EMB: M22898; NID: 9189474
A; Note: this 72-Arg allele appears to be about 5 times more frequent than the 72-Pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-393 <LAM>
A; Residues: 1-393 <LAM>
A; Cross = 1-304 <LAM = 1-304
                                                                                                                                                                                                                                                                                                                         10;
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A:Note: this 72-Pro allele was found in both normal and malignant cell lines
R:Chumakov, P.M.; Almazov, V.P.; Jenkins, J.R.
B:Chumakov, P.M.; Almazov, V.P.; Jenkins, J.R.
A:Reference number: S40773
A:Reference number: S40773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RAASASPYTPEHAASVP-THSPYAQPSSTFDIMSPAPV-----IPSNTDYPGPHHFE 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   49 -VANWLNEDPEEGLRVPAAPAPEAPAAPALAAPATSWPLSSSVPSOKTYHGNYGFR 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129 VTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVT 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          249 FTTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDH 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            309 YHEQQALNESSAKNG-----AASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVR 360
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                                                                                                                                                                                                                                                                                                                                                                                                                     21 SLEP---DSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMDQMSS 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                226 CITIHYNYMCNSSCMGGMNRRPILTITILEDSSGNLLGRNSFEVRVCACPGRDRRFEEEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 SLEPPLSQETFSDLWKLLPENNL-------LTTSLNPPVDDLLSAED----
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                                                                                                                                                                                                                                                                                                              57;
                                                                                                                                                                                                                        Length 391;
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                       Ouery Match 21.4%; Score 724.5; DB 2; Best Local Similarity 43.5%; Pred. No. 8.6e-43; Matches 165; Conservative 54; Mismatches 103;
                                                                                                                                                                                                  21.4%; Score 724.5; DB 2 43.5%; Pred. No. 8.6e-43;
          A;Gene: p53
C;Superfamily: cellular tumor antigen p53
C;Keywords: tumor
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A; Residues: 1-71,'P',73-393 <BUC2>
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A; Residues: 1-173, W, 175-391 <br/>
A; Roross references: EMBL:L07909
A; Note: the nucleotide sequence was submitted to the EMBL Data Library, December 1992 C; Genetics: C; Coperfamily: callular tumor antigen p53 C; Superfamily: callular tumor antigen p53 C; Superfamily: cellular tumor antigen p53 C; Reywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus; phosph F; 174,177,236,240/Binding site: zinc (Cys, His, Cys, Cys) #status predicted F; 390/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Status: preliminary; nucleic acid sequence not shown; translation not shown Molecule type: DNA Molecule type: DNA Molecule 1-173, W,/175-391 < MUL> (Cross-references: EMBL:007909 Mole: the nucleotide sequence was submitted to the EMBL Data Library, December 1992
R;Soussi, T.; de Fromentel, C.C.; Breugnot, C.; May, E.
Nucleic Acids Res. 16, 11384, 1988
A;Title: Nucleotide sequence of a cDNA encoding the rat p53 nuclear oncoprotein.
A;Reference number: S02192; MUID:89083585
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C; Species: Oryctolagus cuniculus (domestic rabbit)
C; Species: Oryctolagus cuniculus (domestic rabbit)
C; Date: 11-Apr-1997 #sequence_revision 09-May-1997 #text_change 20-Jun-2000
C; Accession: JCG193
R; Le Goas, F.; May, P.; Ronco, P.; de Fromentel, C.C.
Gene 185, 169-173, 1997
A; Title: CDNA cloning and immunological characterization of rabbit p53.
A; Reference number: JCG193; MUID:97208869
A; Recession: JCG193
A; Molecule type: mRNA
A; Residues: 1-391 < LEA>
A; Cross references: EMBL: X90592; NID:91532043; PIDN: CAA62216.1; PID:91532044
C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94 SVPSQKIYQGNYGFHLGFLQSGTAKSVMCIYSISLNKLFCQLAKTCPVQLWVTSTPPPGT 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               174 AIRAMPVYKKAEHVIDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGR 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     67 LLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPV------ 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QSVVVPYEPPQVGTEFTTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGR 293
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VCACPGRDRRTEEENFRKKEEHCPELPPGSA-----KRALPTSTSSSPQ-----QKKKP 320
                                                                                                                                                                                                                                             A; Molecule type: mRNA
A; Realdues: 1-391 <SOU>
A; Realdues: 1-391 <SOU>
A; Realdues: 1-391 <SOU>
A; Cross-references: EMBL: X13058; NID:956828; PIDN:CAA31457.1; PID:956829
B; Hulla, J.E.; Schneider, R.P.
Nucleic Acids Res. 21, 713-717, 1993
A; Title: Structure of the rat p53 tumor suppressor gene.
A; Reference number: S41149; MUID:93181268
A; Stetus: preliminary; nucleic acid sequence not shown; translation not s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVF-----HLEGMTTSVMAQFN 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  115 -IPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18 TFSCLWKLLPPDDI---LPTTA----TGSPNSMEDLFLPQDVAELLEG------
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21.7%; Score 735.5; DB 1; Length 391;
42.8%; Pred. No. 1.5e-43;
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A; Molecule type: mRNA
A; Residues: 1-236,'I',
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                                                                                                                                                                                                                                                                                                       A; Accession: I38086
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                                                                                                                  A. Title: Isolation and characterization of a human p53 cDNA clone: expression of the hum A; Reference number: $42669; MUID: 85126934
A; Accession: $42669
A; Molecule type: mRNA
A; Molecule type: mVID: 95230577
A; Reference number: A22837; MVID: 85230577
A; Accession: A22837
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A; Residues: 1-71, 'p',73-393 <ZAK>
A; Residues: 1-71, 'p',73-393 <ZAK>
A; Rosissreferences: EMBL: M502469; EMBL: M60950; NID: G35209; PIDN: CAA26306.1; PID: G35210
B; Harlow, E.; Williamson, N.M.; Raiston, R.; Helfman, D.M.; Adams, T.E.
MOI. Cell. Biol. 5, 1601-1610, 1995
A; Title: Molecular cloning and in vitro expression of a cDNA clone for human cellular A; Reference number: A55060; MUID: 85267676
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A) Cross-references: EMBL.X60010; NID:9506432; PIDN:CAA42625.1; PID:9506433
A) Note: deletion of a C nucleotide causes a frameshift at position 566
A) Accession: 138083
A) Status: translated from GB/EMBL/DDBJ
A) Molecule type: mRNA
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A; Residues: 1-71, 'P',73-272,'H',274-393 <HAR>
A; Cross-references: GB: K013199; NID: 9189478; PIDN: AAA59989.1; PID: 9189479
A; Experimental source: clone pR4-2, cell line A431
R; Harris, N; Brill, E.; Shohat, O.; Prokocimer, M.; Wolf, D.; Aral, N.; Rotter, Mol. Cell. Biol. 6, 4650-4656, 1986
A; Title: Molecular basis for heterogeneity of the human p53 protein.
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A; Residues: 178, 77, 80-393 < HAR1>
A; Residues: 178, 77, 80-393 < HAR1>
A; Experimental source: Chone p53-H-1, transformed hybridoma SV-80 cell line
A; A; Cessalon: B535397
A; Molecule type: mRNA
A; Residues: 1-71, 79, 73-78, 77, 80-393 < HAR2>
A; Residues: 1-71, 79, 73-78, 77, 80-393 < HAR2>
A; Residues: 1-71, 79, 73-78, 77, 80-393 < HAR2>
A; Residues: 1-71, 79, 73-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 77, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 78-78, 
A;Cross-references: EMBL:X54156; NID:g35213; PIDN:CAA38095.1; PID:g35214
R;Matlashewski, G.; Lamb, P.; Pim, D.; Peacock, J.; Crawford, L.; Benchimol, S.
EMBO J. 3, 3257-3262, 1984
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A; Cross-references: EMBL:X60011; NID:9506434; PIDN:CAA42626.1; PID:9506435
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A; Cross-references: EMBL:X60012; NID:9506436; PIDN:CAA42627.1; PID:9506437
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A; Molecule type: mRNA; DNA
A; Residues: 6671, 79.73 < MKI2>
A; Experimental source: clone lambda Cli3
A; Experimental source: clone lambda cli3
A; Note: 72-Cys was also found, and appears to represent a polymorphism
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A; Residues: 66-79 <MKI3>
A: Experimental source: clone J6K
B; Experimental source: G.J.; Shanahan, F.; Vousden, K.H.; Crook, T.
EMBO J. 10, 2879-2887, 1991
A; Title: P53 1s frequently mutated in Burkitt's lymphoma cell lines.
A; Reference number: 138082; MUID: 92007731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A, Status: translated from GB/EMBL/DDBJ
A, Molecule type: mRNA
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A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A; Scalars - Langarder | Itom Objects | A; Scalars - Itom Objects | Ito
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                                                A;Molecule type: mRNA
A;Residues: 1-245,'T',247-393 <F04>
A;Cross-references: EMBL:X60013; NID:g506438; PIDN:CAA42628.1; PID:g506439
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Modecule type: mRRM
A;Modecules: 1-71, FP.73-237, Y',239-393 <F07>
A;Residues: 1-71, FP.73-237, Y',239-393 <F07>
A;Cross-references: EMBL:X60016; NID:9506444; PIDN:CAA42631.1; PID:9506445
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:Residues: 1-212,'Q',214-393 <P10>
:Cross-references: EMBL:X60019; NID:9506450; PIDN:CAA42634.1; PID:9506451
                                                                                                                                                                                                                                                                                                                                                                                                                         A;Gross-references: EMBL:X60014; NID:9506440; PIDN:CAA42629.1; PID:9506441
A;Accession: 138087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Molecule type: mRNA
;Residues: 1-247,'Q',249-393 <F06>
;Cross-references: EMBL:X60015; NID:g506442; PIDN:CAA42630.1; PID:g506443
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;Residues: 1-247,'Q',249-393 <F08>
;Cross-references: EMBL:X60017; NID:9506446; PIDN:CAA42632.1; PID:9506447
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Cross-references: EMBL:X60018; NID:9506448; PIDN:CAA42633.1; PID:9506449
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A;Cross-references: GB:S41969; NID:g1679931; PIDN:AAB19324.1; PID:g233814
A;Accession: 178850
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A; Residues: 246-247, W, 249-250 < YAM>
A; Cross-references: GB:863157; NID:9237829; PIDN:AAB20140.1; PID:9237830
A; Note: sequence extracted from NCBI backbone (NCBIN:63157, NCBIP:63158)
A; Note: mutation from a. 11ver metastasis of a gastric cancer
R; Hensel, C.H.; Xiangy R.H.; Sakaguchi, A.Y.; Naylor, S.L.
Oncogene 6, 1067-1071, 1991
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A;Molecule type: DNA
A;Residues: 274-277,'S',279-282 <HEN2>
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A;Molecule type: DNA
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A; Status: translated from GB/EMBL/DDBJ
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from GB/EMBL/DDBJ
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Length 393;

DB 1;

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21.2%; Sc.larity 42.1%; Pr
Conservative 58;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cellular tumor antigen p53 - mouse
                                                                              Similarity
                                                Query Match
Best Local Sim:
Matches 160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   128
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**Rolecule type: mRNA

**Residues: 327-331, **DQTSFQXENC' CCHO>

**Residues: 327-331, **DQTSFQXENC' CCHO>

**Residues: 327-331, **DQTSFQXENC' CCHO>

**GCOSS references: GB:S66666; MID:g436292; PIDN:AAB28601.1; PID:g436293

**GCOSS references: GB:S66666; MID:g436292; PIDN:AAB28601.1; PID:g436293

**Rote: mucant sequence with altered splicing and termination expressed in Molt-4 T-lymp

**Petersen, G.; Song, D.; Huegle-Doerr, B.; Oldenburg, I.; Bautz, E.K.F.

**Alther and the properties of the 
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C;Superfamily: cellular tumor antigen p53
C;Reywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus; phosph
F:176,179,238,242/Rainding site: zinc (Cys. His, Cys. Cys) #status predicted
F:392/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Title: Nuclear and nucleolar targeting sequences of c-erb-A, c-myb, N-myc, p53, HSP70,
                                                                                                                tumor suppressor gene in the Molt-4 T-lymphobl
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Nucleic Acids Res. 17, 8375, 1989
A;Title: Nucleotide sequence of a.CDNA encoding the monkey cellular phosphoprotein p53.
A;Reference number: 806594; MUID:90045967
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               185 EHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQ 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HHFEVTFOOSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VGTEFTTILYNFMCNSSCVGGMNRRPILIITLEMRDGQVLGRRSFEGRICACPGRDRKA 304
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74 OMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDT-MSPAPV-----IPSNTDYPGP 124
A;Cross-references: GB:S41977; NID:g1679932; PIDN:AAB19325.1; PID:g232816 R;Chow, V.T.; Quek, H.H.; Tock, E.P.C. Cancer Lett. 73, 141-148, 1993
A;Title: Alternative splicing of the p53 tumor suppressor gene in the Molt A;Reference number: 152681; MUID:94036762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18 TFSDLWKLLPENNVLSPLP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A) Reference number: S60151; MUID: 96133
A) Accession: S60153
A) Molecule type: DNA
A) Residues: 3-44 <PET>
R) Dang, C.V.; Lee, W.M.F.
J. Biol. Chem. 264, 18019-18023, 1989
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Residues: 1-393 <RIG>
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A:Molecule: type: DNA
A:Residues: 1-134,'V',136-390 <BIE>.
A:Cross-references: GB:X00876; NID:9871420; PIDN:CAA25420.1; PID:9871421; GB:X01237;
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A;Accession: S38822
A;Aocession: S38822
A;Molecule type: mRNA
A;Residues: 1.390 <ARAl>
A;Cross-references: EMBL:M13872; NID:g200198; PIDN:AAA39881.1; PID:g200199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N'Alternate names: oncoprotein p53
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 28-Aug-1985 #sequence_revision 04-Oct-1996 #text_change 11-May-2000
C;Date: 28-Aug-1985 #sequence_revision 04-Oct-1996 #text_change 11-May-2000
C;Accession: A27739; S06336; A02684; S38822; S38823; S40014; I48703
R;Bienc. B.; Bisaut-Hoult, R.; Givol, D.; Oren, M.
A;Bience, B.; Ally-2183, 1984
A;Ritle: Analysis of the gene coding for the murine cellular tumour antigen p53.
A;Reterence number: A22739; MUID:85027173
                                 11;
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A; Motecule type: mRNA
A; Mesducus: 1-159, MR, 161-167, G', 169-233, 'I', 235-390 <ZAK>
A; Cross-references: GB:X01237; GB:K01700; NID:953575
R; Azal. N; Nomura, D.; Yokofa, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V.
A010. Cell. Biol. 6, 3232-3239, 1986
A; Title: Immunologically distinct p53 molecules generated by alternative splicin
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Bloorg. Khim. 13, 1691-1694, 1987
A;Title: Primary structure of DNA complementary to murine oncoprotein p53 mRNA.
A;Reference number: S06336; MUID:88221682
A;Accession: S06336
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A; Residues: 1-134, VV, 136-390 <CHU>
B;Zakut-Houri, R.; Oren, M.; Blenz, B.; Lavie, V.; Hazum, S.; Givol, D.
Nature 306, 594-597, 1983
A; Title: A single gene and a pseudogene for the cellular tumour antigen p53.
A; Reference number: A02684; MUID:84068204
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                                    Gaps
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                                                                                                   14 TPEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD
                                                                                                                                                                 18 TFSDLWKLLPENNVLSPLPSQA------VDDLM-----LSPDDLAQW-LTEDPGP
                                                                                                                                                                                                                                   74 QMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAP-----VIPSNTDYPGPHHF
                                                                                                                                                                                                                                                                               EVIPOOSSTAKSAIWIYSPLLKKLYCQIAKICPIQIKVSIPPPPGIAIRAMPVYKKAEHV
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ed. No. 2.3e-42;
Mismatches 103;
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A;Residues: 1-381 <HAN>
A;Cross-references: EMBL:M13874; NID:g200202; PIDN:AAA39883.1; PID:g200203
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1988
C;Comment: This sequence, produced by alternative splicing of the tenth intron, lacke
                                                                                                                                                                                                                                                                                                                                                                                                                                    and normal cells of different t
                                                                                                                                                   C;Accession: S38824; S35478
R;Arai, N.; Nomura, D.; Yokota, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V.
Wol. Cell. Biol. 6, 3222-3229, 1986
A;Title: Immunologically distinct p53 molecules generated by alternative splicing. A;Reference number: S38822; MUID:87064640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              F;267-283/Region: conserved region V
F;313-319/Region: nuclear location signal
F;319-357/Region: terramer association
F;319-357/Region: terramer association
F;7,9,12,18,23,37/Binding site: phosphate (Ser) (covalent) #status predicted
F;713,176,235,239/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F;312/Binding site: phosphate (Ser) (covalent) (by cdc2 kinase) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14;
                                                                                                           C;Species: Mus musculus (house mouse)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 23-Jul-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
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                                                                                                                                                                                                                                                                                                   A Molecule type: mRNA
A; Residues: 1-381 <ARNA
A; Residues: 1-381 <ARNA
A; Cross-references: GB:MJ874; NID:g200202; PIDN:AAA39883.1; PID:g200203
A; Cross-references: GB:MJ874; NID:g200202; PIDN:AAA39883.1; PID:g200203
R; Han, K.A.; Kulesz-Martin, M.F.
Nucleic Acids Res: 20., 1979-1981, 1992
A; Reference number: S35478; MUID:g2253421
A; Article: Alternatively spliced p53 RNA in transformed and normal cells of A; Reference number: S35478; MUID:g2253421
A; Actus: nucleic acid sequence not shown; translation not shown
A; Molecule type: mRNA
A; Molecule type: mRNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             74 QMSSRAASASPY--TPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTF
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69; Mismatches 114; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C. Reywords: alternative splicing; phosphoprotein; zinc F:1-44/Domain: transcription activation *status predicted F:16-26/Region: conserved region I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /Domain: DNA-binding core #status predicted <DBC>
                                                                                cellular tumor antigen p53, minor splice form - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            '20.7%; Score 702; 41.3%; Pred. No. 3
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;231-252/Region: conserved region IV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C; Superfamily: cellular tumor antigen
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A:Residues: 1-167,'G',169-390 <ARA3>
A:Residues: 1-167,'G',169-390 <ARA3>
A:Cross-references: EMBL:MAIST3: NID:g200200; PIDN:AAA39882.1; PID:g200201
A:Cross-references: EMBL:MAIST3: NID:g200200; PIDN:AAA39882.1; PID:g200201
B:Jenkins, J.R.; Rudge, K.; Redmond, S.; Wade-Evans, A.
Nucleic Acids Res. 12, 5609-5626, 1984
A:Title: Cloning and expression analysis of full length mouse CDNA sequences encoding in A:Accession: 148703; MUID:84272240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F;267-283/Region: conserved region V
F;313-319/Region: conserved region V
F;313-319/Region: nuclear location signal
F;319-357/Region: tetramer association
F;7,9,12,18,23/37/Binding site: phosphate (Ser) (covalent) #status predicted
F;77,176,235,239/Binding site: zinc (Cys, His;Cys;Cys) #status predicted
F;3173,176,235,239/Binding site: phosphate (Ser) (covalent) (by cdc2 kinase) #status predicted
F;318/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
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                                                                                                     O.; Rotter, V.
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A; Accession: S38823
A; Molecule type: mRNA
A; Readduces: 1-167, 'G', 169-233, 'I', 235-390 <ARA2>
A; Readduces: EMBL: M13873
A; Cross-references: EMBL: M13873
B; Arai, N.; Nomura, D.; Yokota, K.; Wolf, D.; Brill, 'E.; Shohat, submitted to the EMBL Data Library, July 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64; Mismatches 104; Indels
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conserved region IV
L3 loop
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Best Local Similarity
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342 NEALELKD 349
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F)168-178/Region: CC
F)231-252/Region: CC
F)233-248/Region: CC
F)267-283/Region: CC
F)313-319/Region: DC
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OY 120DYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKV 165 1	C. Cy 166 Cy 205 Cy 244 Cy 244 Cy 244 Cy 296 Cy 296 Cy 296 Cy 296	378PAELVPOPLVDSYRQORDLLOTPSGSSFDNGFSSASELASLGGGGS 378	N.:	A;Stacession: T19361 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Status: preliminary; translated from GB/EMBL/DDBJ A;Status: preliminary; translated from GB/EMBL/DDBJ A;Status: DAA A;Cross-references: EMBL:278415; PIDN:CAB01670.1; GSPDB:GN00028; CESP:C17G1.4 A;Experimental source: clone C17G1 C;Genetics: A A;Map position: X A;Introns: 40/3; 98/2; 295/1; 443/3; 590/3; 619/3; 691/1; 810/1; 868/3 C;Superfamily: collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homologuery Match Query Match Best Local Similarity 21.6%; Pred. No. 0.03; Matches 135: Conservative 74. Mismatches 332; Indels 185; Gans 322.
Oy 372 KESLELMELVPOPLVDSYROQQQLLQRP-SHLQPPSY 407 :	RESULT 13 146226 cellular tumor antigen p53 - dog (fragment) cellular tumor antigen p53 - dog (fragment) c.Species: Canis lupus familiaris (dog) c.Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 05-May-2000 C;Accession: 146226 R;Devilee, P.; Van Leeuwen, I.S.; Voesten, A.; Rutteman, G.R.; Voss, J.H.; Cornelisse, Anticancer Res. 14, 2039-2046, 1994 A;Title: The canine p53 gene is subject to somatic mutations in thypoid carcinoma. A;Accession: 146226 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Molecule type: DNA A;Residues: 1-77 cpEy> A;Gross-references: GB:L27630; NID:g508454; PIDN:AAC37327.1; PID:g508455 A;Genetics:	C;Superfamily: Cellular tumor antigen p53 C(Superfamily: Cellular tumor antigen p62 C(Superfamily: Cellular tumor antigen p63 C(Superfamily: Cellular tumor	RESULT 14 T00074 hypothetical protein KIAA0460 - human (fragment) C; Species: Homo sapiens (man) C; Species: Homo sapiens (man) C; Date: 22-Jan-1999 #sequence_revision 22-Jan-1999 #text_change 21-Jul-2000 C; Accession: T00074 R; SSR1, N, Ohlra, M.; Nagase, T.; Ishikawa, K.; Miyajima, N.; Nakajima, D.; Nomura, DNA Res. 4, 345-349, 1997 A; Title: Characterization of cDNA clones in size-fractionated cDNA libraries from humar: Z14085; MUD: 98116662 A; Reference number: Z14085; MUD: 98116662 A; Status: Freilminary; translated from GB/EMBL/DDBJ A; Molecule type: mRNA A; Residues: 1-903 *SEK> A; Molecule type: mRNA A; Residues: L903 *SEK> A; Residues: EMBL: AB007929; NID: 93413881; PIDN: BAA32305.1; PID: 93413882	A) Mote: KIAA0460 4.5%; Score 151.5; DB 2; Length 903; Bost Local Similarity 21.1%; Pred. No. 0.018; Matches 175; Conservative 75; Mismatches 253; Indels 327; Gaps 45; Qy 3 QSTATSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTD 46

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102	152 533	200	244	304	360	408	453 840	494	
GGTDSSMDVFHLEGMTTSVMAQFNLLSSTWDQMSSRAASASPYTPEHAASVPTHSPYAQP :	SSTEDIMSPAPVIPSNIDYPGPHHFEVTFQQSSTAKSAIWIYSPLIKKLY	CQIAKTCPIQIKVSTPPPPGTAIRAMPVYKRAEHVTDVVKRCPNHELG	. RDFNEGGSAPASHLIRVEGNNLSQYVDDFVTGRQSVVVPYEPP	S VGTEFTIILNEMCNSSCVGGMNRRPILIIILEMRDGGVLGRRSFEGRICACPGRDRKA	DEDHYREQOALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVR	GRENFEILMKLKESLELMELVPQPLVDSYRQQQQLLQRPSHGPPSYG ::	PVLSPMNKVHGGMNKLPSVNQLVGQPPPHSSAATPNLGPVGP-GML	NNHCHAVPANGEMSSSHSAQSWVSGSHCTPPPPYTADPSLV	SFLTGLGCPNCIEYFTSOGLQ 515 ::
43	103	153 534	201	245	305	361	409	454	495 898
oy D	Q q	Qy Dp	QY Dp	QQ Dp	Qy	. Q	QZ	QZ	oy ea

Search completed: November 7, 2002, 10:14:36 Job time: 20.6566 secs